Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-DM3 Date: 08-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**98.30**	90-100
19.0	**85.65**	71-95
13.20	**78.15**	56-80
4.75	**46.80**	38-54
2.36	**34.90**	28-42
0.300	**19.35**	7-21
0.075	**7.10**	2-8

KIRAN. R
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For Newzen Consultants Bangalore

Proprietor

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NZ/QC/YPD/T&F-W3/2018-19/P4-DS3 Date: 09-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1155**	900
2	Marshall Flow at 60°C, mm.	**3.18**	2.0 - 4.0

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NZ/QC/YPD/T&F-W3/2018-19/P4-DM4 Date: 08-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.51 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**97.45**	90-100
19.0	**85.10**	71-95
13.20	**72.05**	56-80
4.75	**45.60**	38-54
2.36	**38.30**	28-42
0.300	**18.75**	7-21
0.075	**6.55**	2-8

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NZ/QC/YPD/T&F-W3/2018-19/P4-DS4 Date: 09-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1178**	900
2	Marshall Flow at 60°C, mm.	**3.25**	2.0 - 4.0

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NZ/QC/YPD/T&F-W3/2018-19/P4-CD2 Date: 08-05-2018

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Dense Graded Bituminous Macadam.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**25.86%**	Not more than 27.00 % for DBM
2.	Combined Flakiness and Elongation index, %	**26.94 %**	Not more than 35.0 %
3.	Water absorption, %	**0.39 %**	Not more than 2.0 %
4.	Specific gravity	**2.60**	------
5.	Soundness	**6.27 %**	Max. 12 % in Sodium Sulphate

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NZ/QC/YPD/T&F-W3/2018-19/P4-DM5

Date: 10-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	97.45	90-100
19.0	84.10	71-95
13.20	76.25	56-80
4.75	45.05	38-54
2.36	34.80	28-42
0.300	19.35	7-21
0.075	6.80	2-8

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NZ/QC/YPD/T&F-W3/2018-19/P4-DS5

Date: 11-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1178**	900
2	Marshall Flow at 60°C, mm.	**3.26**	2.0 - 4.0

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NZ/QC/YPD/T&F-W3/2018-19/P4-DM6 Date: 11-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.51 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**96.55**	90-100
19.0	**89.45**	71-95
13.20	**76.15**	56-80
4.75	**44.05**	38-54
2.36	**37.80**	28-42
0.300	**18.35**	7-21
0.075	**6.90**	2-8

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NZ/QC/YPD/T&F-W3/2018-19/P4-DS6 Date: 12-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1190**	900
2	Marshall Flow at 60°C, mm.	**3.28**	2.0 - 4.0

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NZ/QC/YPD/T&F-W3/2018-19/P4-DM7 Date: 12-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	98.45	90-100
19.0	85.60	71-95
13.20	78.15	56-80
4.75	45.60	38-54
2.36	34.05	28-42
0.300	19.55	7-21
0.075	7.10	2-8

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NZ/QC/YPD/T&F-W3/2018-19/P4-DS7 Date: 14-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1172**	900
2	Marshall Flow at 60°C, mm.	**3.24**	2.0 - 4.0

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NZ/QC/YPD/T&F-W3/2018-19/P4-DM8 Date: 14-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.51 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**96.55**	90-100
19.0	**83.75**	71-95
13.20	**75.15**	56-80
4.75	**46.20**	38-54
2.36	**38.45**	28-42
0.300	**17.25**	7-21
0.075	**7.30**	2-8

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NZ/QC/YPD/T&F-W3/2018-19/P4-DS8

Date: 15-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1168**	900
2	Marshall Flow at 60°C, mm.	**3.23**	2.0 - 4.0

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NZ/QC/YPD/T&F-W3/2018-19/P4-BB1 Date: 11-05-2018

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade used in Bituminous Concrete.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**51.00^0 C**	Min. 45
2.	Ductility Value at 25^0 C	**113 cm**	40
3.	Flash point	**235^0 C**	Minimum 220^0 C
4.	Softening point	**52.20^0 C**	Min. 47

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NZ/QC/YPD/T&F-W3/2018-19/P4-CB1 Date: 11-05-2018

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**23.08 %**	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	**25.89 %**	Not more than 35.0 %
3.	Water absorption, %	**0.36 %**	Not more than 2.0 %
4.	Specific gravity	**2.63**	-------
5.	Soundness	**6.12 %**	Max. 12 % in Sodium Sulphate

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